

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-2 (canceled)

1 Claim 3 (previously presented) A multi-mode cellular
2 phone terminal comprising:

3 radio communications means connected to an antenna for
4 transmitting/receiving radio waves;

5 signal processing means for transmitting/receiving a
6 transmit/receive signal to/from said radio communication
7 means; and

8 communications control means for controlling said
9 radio communications means and said signal processing
10 means, said multi-mode cellular phone terminal supporting
11 a plurality of communications systems,

12 wherein said radio communications means is composed of
13 hardware to be use in common by a plurality of
14 communications systems, and said signal processing means is
15 composed of hardware to execute signal processing
16 supporting a plurality of communications systems,

17 ~~wherein communications control means can support~~
18 ~~different communications control systems and that said~~
19 signal processing means can support different bit rates and

20 modulation systems using different communications systems
21 timings, and
22 wherein communications control means can support
23 different communications systems timings.

Claim 4 (canceled)

1 Claim 5 (previously presented) A multi-mode cellular
2 phone terminal according to claim 3, wherein a clock having
3 a frequency necessary for modulation/demodulation at a
4 plurality of different bit rates is generated by frequency
5 division means for making integral frequency division via
6 different dividing number or fractional frequency division
7 of a common reference clock output from a single
8 oscillator.

Claim 6 (canceled)

1 Claim 7 (original) A multi-mode cellular phone
2 terminal according to claim 3, wherein said signal
3 processing means executes modulation/demodulation
4 supporting a plurality of communications systems and has a
5 signal processor composed of common hardware and memory
6 storing a plurality of signal processing programs.

Claim 8 (canceled)

1 Claim 9 (original) A multi-mode cellular phone
2 terminal according to claim 3, wherein said signal
3 processing means has a signal processor composed of common
4 hardware and read/write memory storing the minimum signal
5 processing programs to support each communications system.

1 Claim 10 (original) A multi-mode cellular phone
2 terminal according to claim 3, wherein said communications
3 control means has a controller supporting a plurality of
4 communications systems and memory storing control programs
5 supporting the multi-mode.

 Claims 11 (canceled)

1 Claims 12 (original) A multi-mode cellular phone
2 terminal according to claim 5, wherein said multi-mode
3 cellular phone terminal has a system timer for switching
4 over a plurality of clocks generated by said frequency
5 division means and counting different timings to support a
6 plurality of communications systems.

1 Claim 13 (previously presented) A multi-mode cellular
2 phone terminal comprising
3 radio communications means connected to an antenna for
4 transmitting/receiving radio waves;

5 signal processing means for transmitting/receiving a
6 transmit/receive signal to/from said radio communication
7 means; and

8 communications control means for controlling said
9 radio communications means and said signal processing
10 means, said multi-mode cellular phone terminal supporting
11 a plurality of communications systems,

12 wherein said radio communications means is composed of
13 hardware to be use in common by a plurality of
14 communications systems, and said signal processing means is
15 composed of hardware to execute signal processing
16 supporting a plurality of communications systems,

17 wherein communications control means can support
18 different communications control systems and that said
19 signal processing means can support different bit rates and
20 modulation systems,

21 wherein said communications control means has a
22 controller supporting a plurality of communications systems
23 and memory storing control programs supporting the multi-
24 mode, and

25 wherein said multi-mode cellular phone terminal
26 establishes connection of a voice call or data
27 communications by switching over and counting a plurality
28 of timings to support a plurality of communications systems
29 and maintaining the system timing synchronization
30 supporting a plurality of communications systems.

1 Claim 14 (previously presented) A multi-mode cellular
2 phone terminal comprising
3 radio communications means connected to an antenna for
4 transmitting/receiving radio waves;
5 signal processing means for transmitting/receiving a
6 transmit/receive signal to/from said radio communication
7 means; and
8 communications control means for controlling said
9 radio communications means and said signal processing
10 means, said multi-mode cellular phone terminal supporting
11 a plurality of communications systems,
12 wherein said radio communications means is composed of
13 hardware to be use in common by a plurality of
14 communications systems, and said signal processing means is
15 composed of hardware to execute signal processing
16 supporting a plurality of communications systems,
17 wherein communications control means can support
18 different communications control systems and that said
19 signal processing means can support different bit rates and
20 modulation systems,
21 wherein said multi-mode cellular phone terminal has a
22 system timer for switching over a plurality of clocks
23 generated by said frequency division means and counting
24 different timings to support a plurality of communications
25 systems, and

26 wherein said multi-mode cellular phone terminal
27 establishes connection of a voice call or data
28 communications by switching over and counting a plurality
29 of timings to support a plurality of communications systems
30 and maintaining the system timing synchronization
31 supporting a plurality of communications systems.

1 Claim 15 (previously presented) A multi-mode cellular
2 phone terminal comprising

3 radio communications means connected to an antenna for
4 transmitting/receiving radio waves;

5 signal processing means for transmitting/receiving a
6 transmit/receive signal to/from said radio communication
7 means; and

8 communications control means for controlling said
9 radio communications means and said signal processing
10 means, said multi-mode cellular phone terminal supporting
11 a plurality of communications systems,

12 wherein said radio communications means is composed of
13 hardware to be use in common by a plurality of
14 communications systems, and said signal processing means is
15 composed of hardware to execute signal processing
16 supporting a plurality of communications systems,

17 wherein communications control means can support
18 different communications control systems and that said
19 signal processing means can support different bit rates and

20 modulation systems,
21 wherein a clock having a frequency necessary for
22 modulation/demodulation at a plurality of different bit
23 rates is generated by frequency division means for making
24 integral frequency division via different dividing number
25 or fractional frequency division of a common reference
26 clock output from a single oscillator, and
27 wherein said multi-mode cellular phone terminal
28 establishes connection of a voice call or data
29 communications by switching over and counting a plurality
30 of timings to support a plurality of communications systems
31 and maintaining the system timing synchronization
32 supporting a plurality of communications systems.

1 Claim 16 (original) A multi-mode cellular phone
2 terminal according to claim 13, characterized in that said
3 multi-mode cellular phone terminal performs a handover
4 between different communications systems by providing
5 monitoring means for monitoring the receiving state to
6 support the communications system of the handover
7 destination in the idle period of an established
8 communications system in connecting a voice call or data
9 communications and by maintaining the system timing
10 synchronization to support the communications system of the
11 handover destination.

1 Claim 17 (original) A multi-mode cellular phone
2 terminal according to claim 14, characterized in that said
3 multi-mode cellular phone terminal performs a handover
4 between different communications systems by providing
5 monitoring means for monitoring the receiving state to
6 support the communications system of the handover
7 destination in the idle period of an established
8 communications system in connecting a voice call or data
9 communications and by maintaining the system timing
10 synchronization to support the communications system of the
11 handover destination.

1 Claim 18 (original) A multi-mode cellular phone
2 terminal according to claim 15, characterized in that said
3 multi-mode cellular phone terminal performs a handover
4 between different communications systems by providing
5 monitoring means for monitoring the receiving state to
6 support the communications system of the handover
7 destination in the idle period of an established
8 communications system in connecting a voice call or data
9 communications and by maintaining the system timing
10 synchronization to support the communications system of the
11 handover destination.